

FIG. 1

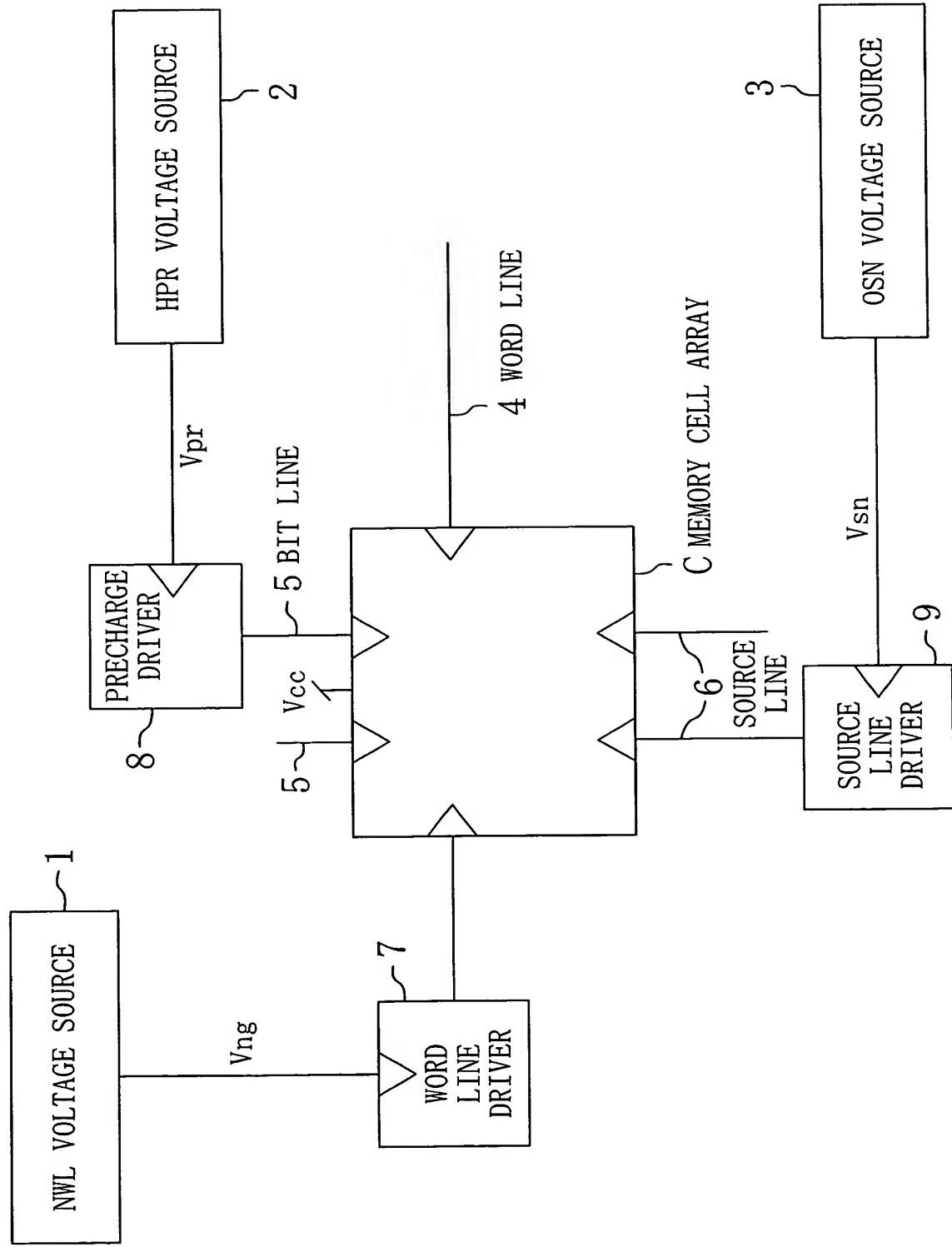


FIG. 2

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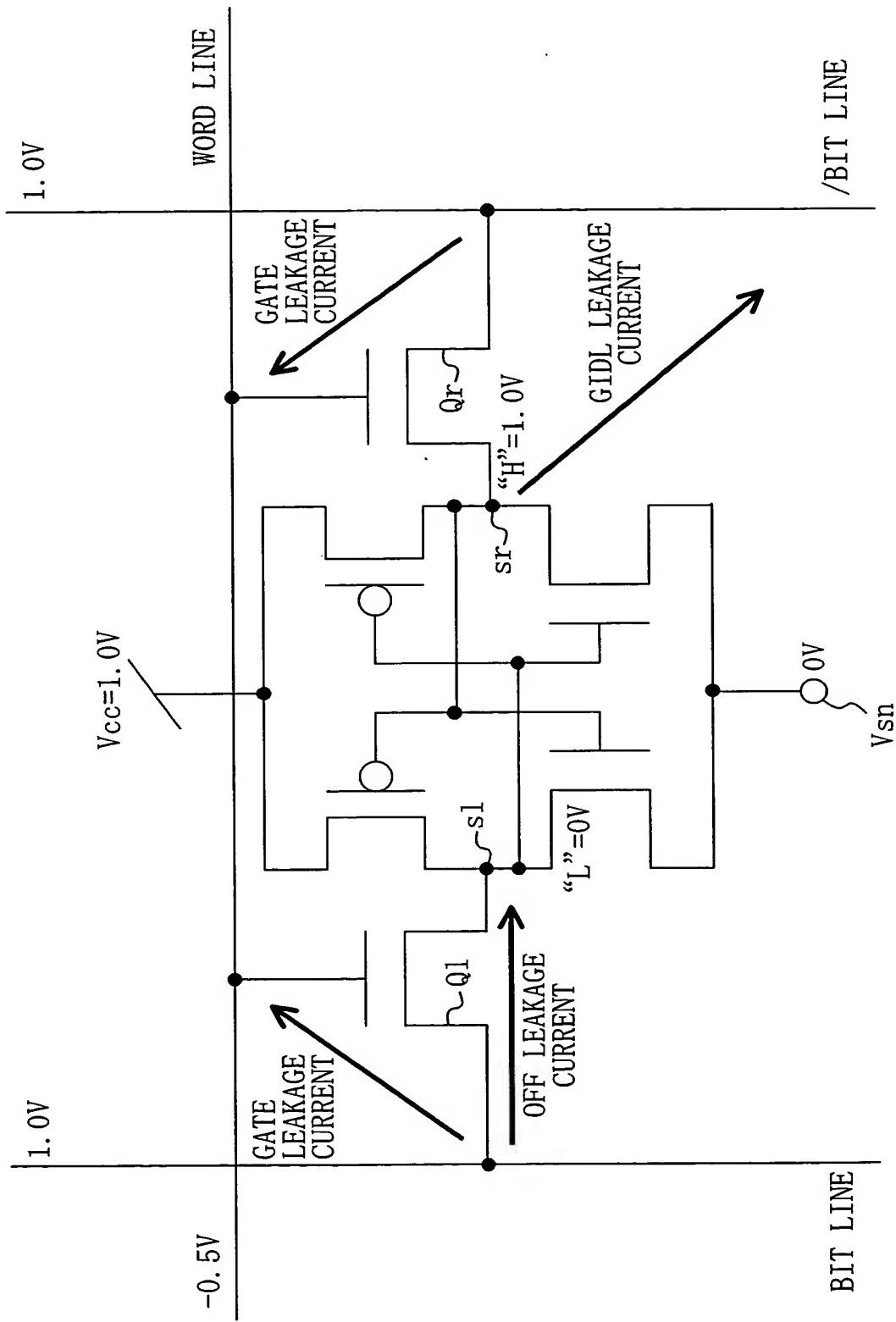


FIG. 3

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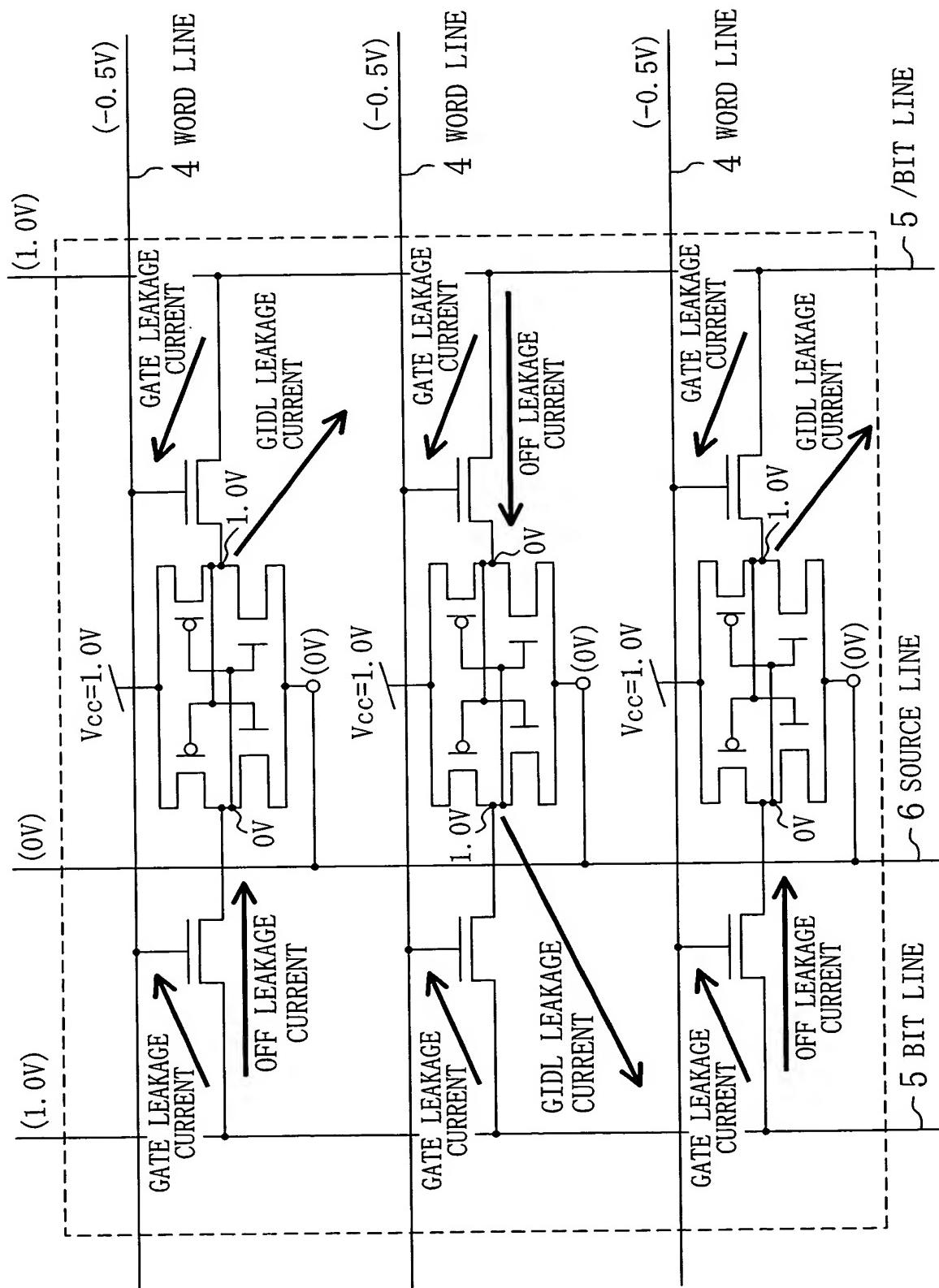


FIG. 4

NON-SELECTED WORD LINE (NWL VOLTAGE SOURCE)	LARGE NEGATIVE VOLTAGE ($-V_{CC} \sim -V_{CC}/2$)	INTERMEDIATE NEGATIVE VOLTAGE ($-V_{CC}/3 \sim -V_{CC}/4$)	SMALL NEGATIVE VOLTAGE ($-V_{CC}/6 \sim 0V$)
	OFF LEAKAGE CURRENT GATE LEAKAGE CURRENT GIDL LEAKAGE CURRENT	VERY SMALL VERY LARGE VERY LARGE	INTERMEDIATE INTERMEDIATE INTERMEDIATE
			VERY LARGE
NON-SELECTED BIT LINE (HPR VOLTAGE SOURCE)	HIGH POTENTIAL PRECHARGE ($V_{pre}=V_{CC}$)	INTERMEDIATE POTENTIAL PRECHARGE ($V_{pre}=V_{CC}/2$)	LOW POTENTIAL PRECHARGE ($V_{pre}=V_{CC}/3 \sim 0V$)
	OFF LEAKAGE CURRENT GATE LEAKAGE CURRENT GIDL LEAKAGE CURRENT	INTERMEDIATE LARGE LARGE	SMALL SMALL SMALL
			INTERMEDIATE
NON-SELECTED SOURCE LINE (OSN VOLTAGE SOURCE)	HIGH POTENTIAL LOW LEVEL ($V_{sn}=V_{CC}/2$)	INTERMEDIATE POTENTIAL LOW LEVEL ($V_{sn}=V_{CC}/4$)	LOW POTENTIAL LOW LEVEL ($V_{sn}=0V$)
	OFF LEAKAGE CURRENT GATE LEAKAGE CURRENT GIDL LEAKAGE CURRENT	VERY SMALL UNRELATED VERY SMALL	INTERMEDIATE UNRELATED INTERMEDIATE
			LARGE UNRELATED SMALL

FIG. 5

	STATE	VOLTAGE SOURCE	SELECTED	NON-SELECTED
Mode-A $(\text{HIGH TEMPERATURE})$	NWL VOLTAGE SOURCE (WORD LINE)	Vcc	-1/3 Vcc	
	HPR VOLTAGE SOURCE (BIT LINE)	1/2 Vcc~Vcc	1/2 Vcc	
	OSN VOLTAGE SOURCE (SOURCE LINE)	Vss	1/3 Vcc	
	NWL VOLTAGE SOURCE (WORD LINE)	Vcc	-1/4 Vcc	
Mode-B $(\text{LOW TO ROOM TEMPERATURE})$	HPR VOLTAGE SOURCE (BIT LINE)	1/2 Vcc~Vcc	1/2 Vcc	
	OSN VOLTAGE SOURCE (SOURCE LINE)	Vss	1/4 Vcc	
	NWL VOLTAGE SOURCE (WORD LINE)		-1/3 Vcc	
	HPR VOLTAGE SOURCE (BIT LINE)		floating	
Mode-C $(\text{HIGH TEMPERATURE})$	OSN VOLTAGE SOURCE (SOURCE LINE)		1/3 Vcc	
	NWL VOLTAGE SOURCE (WORD LINE)		-1/4 Vcc	
	HPR VOLTAGE SOURCE (BIT LINE)		floating	
	OSN VOLTAGE SOURCE (SOURCE LINE)		1/4 Vcc	
Mode-D $(\text{LOW TO ROOM TEMPERATURE})$	NWL VOLTAGE SOURCE (WORD LINE)			
	HPR VOLTAGE SOURCE (BIT LINE)			
	OSN VOLTAGE SOURCE (SOURCE LINE)			
DURING OPERATION		DURING STANDBY		

FIG. 6

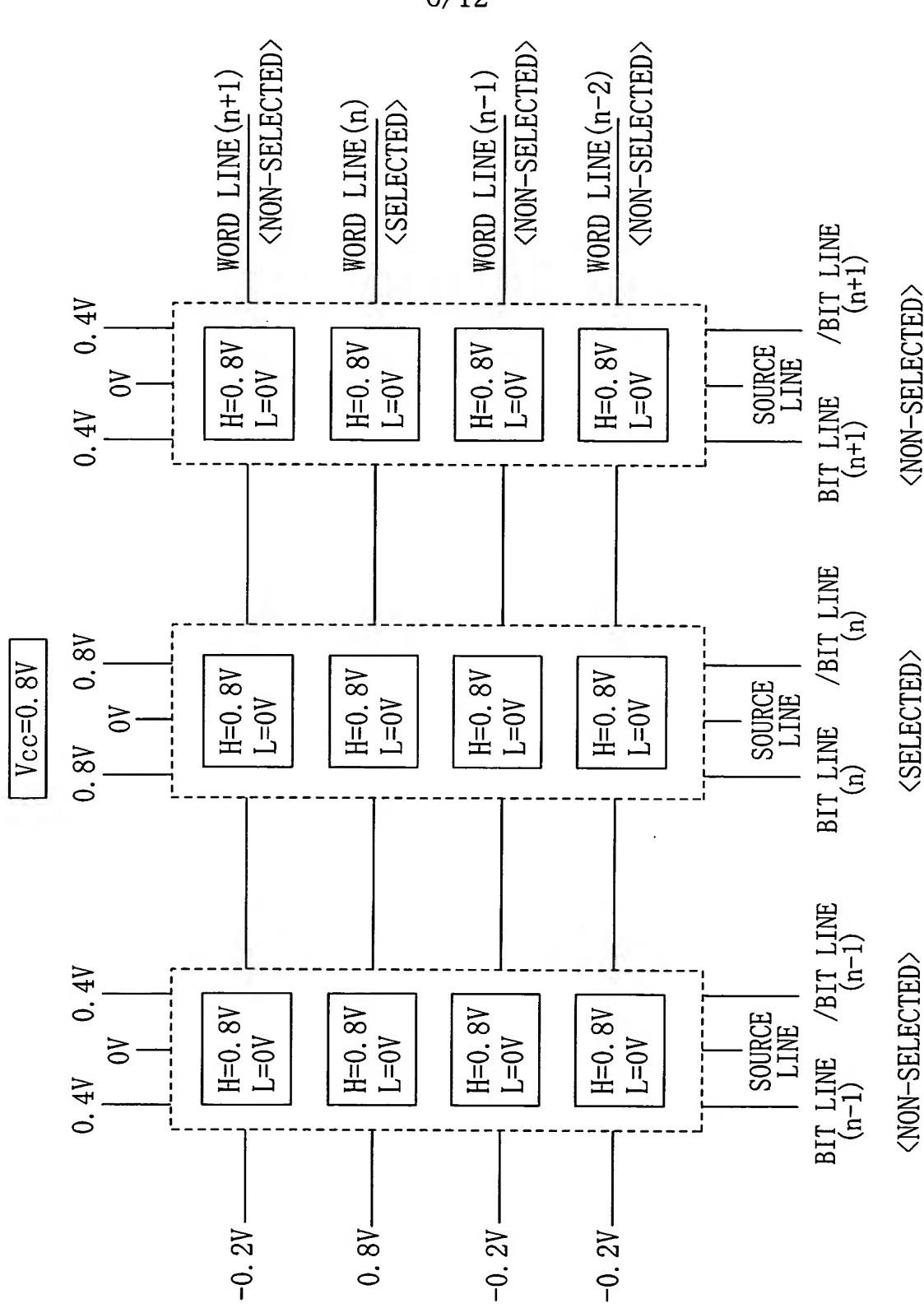


FIG. 7

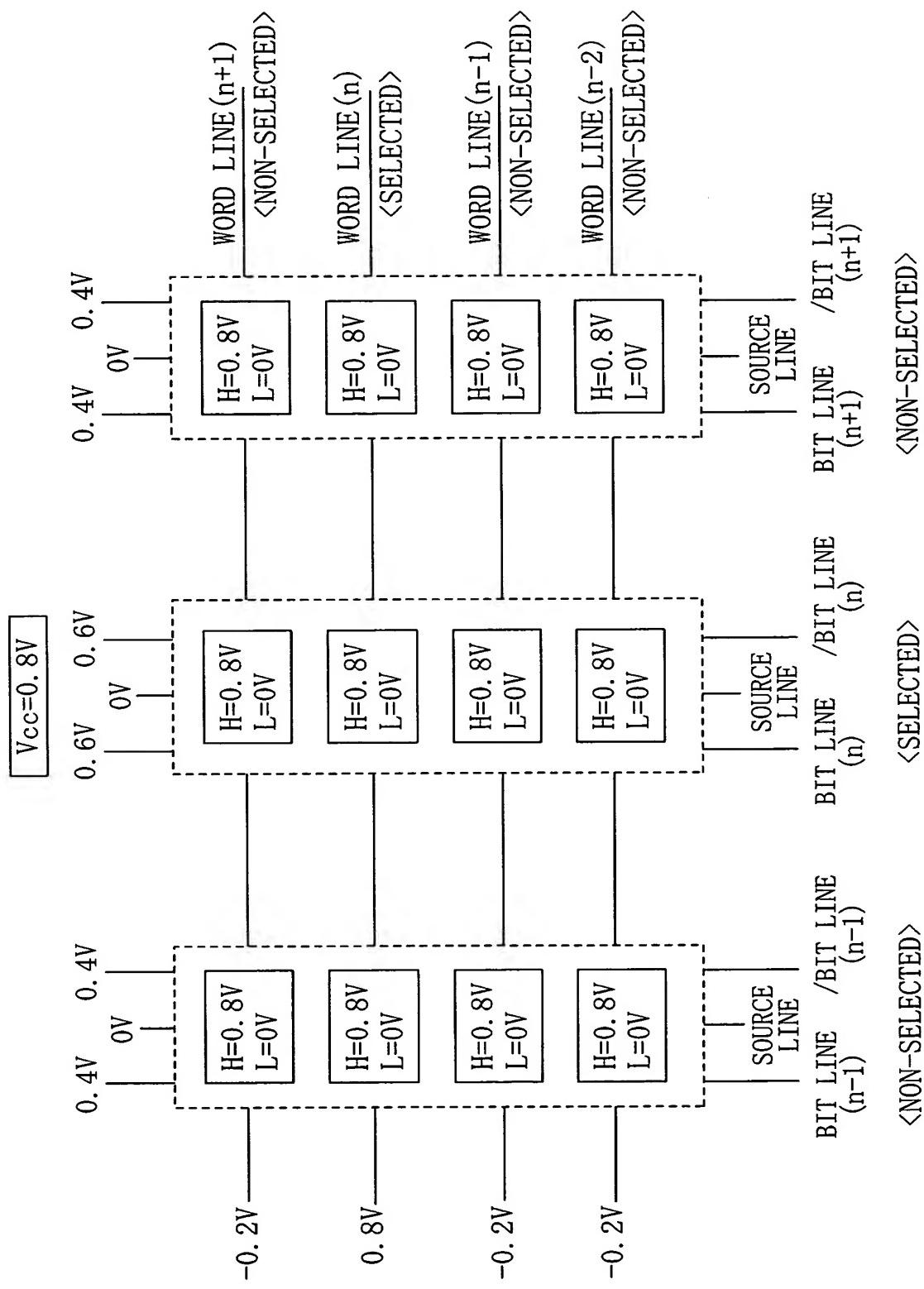


FIG. 8

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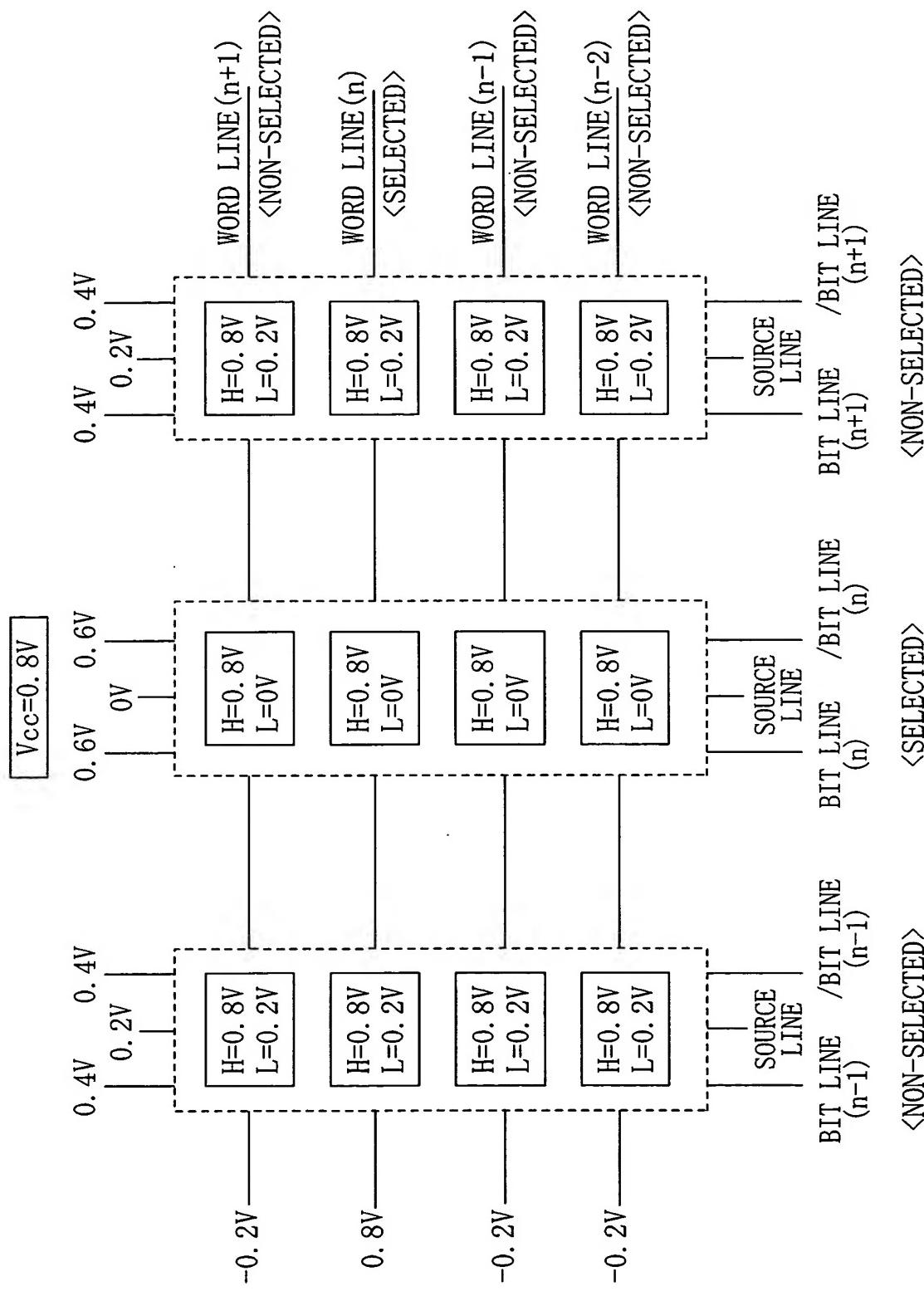


FIG. 9

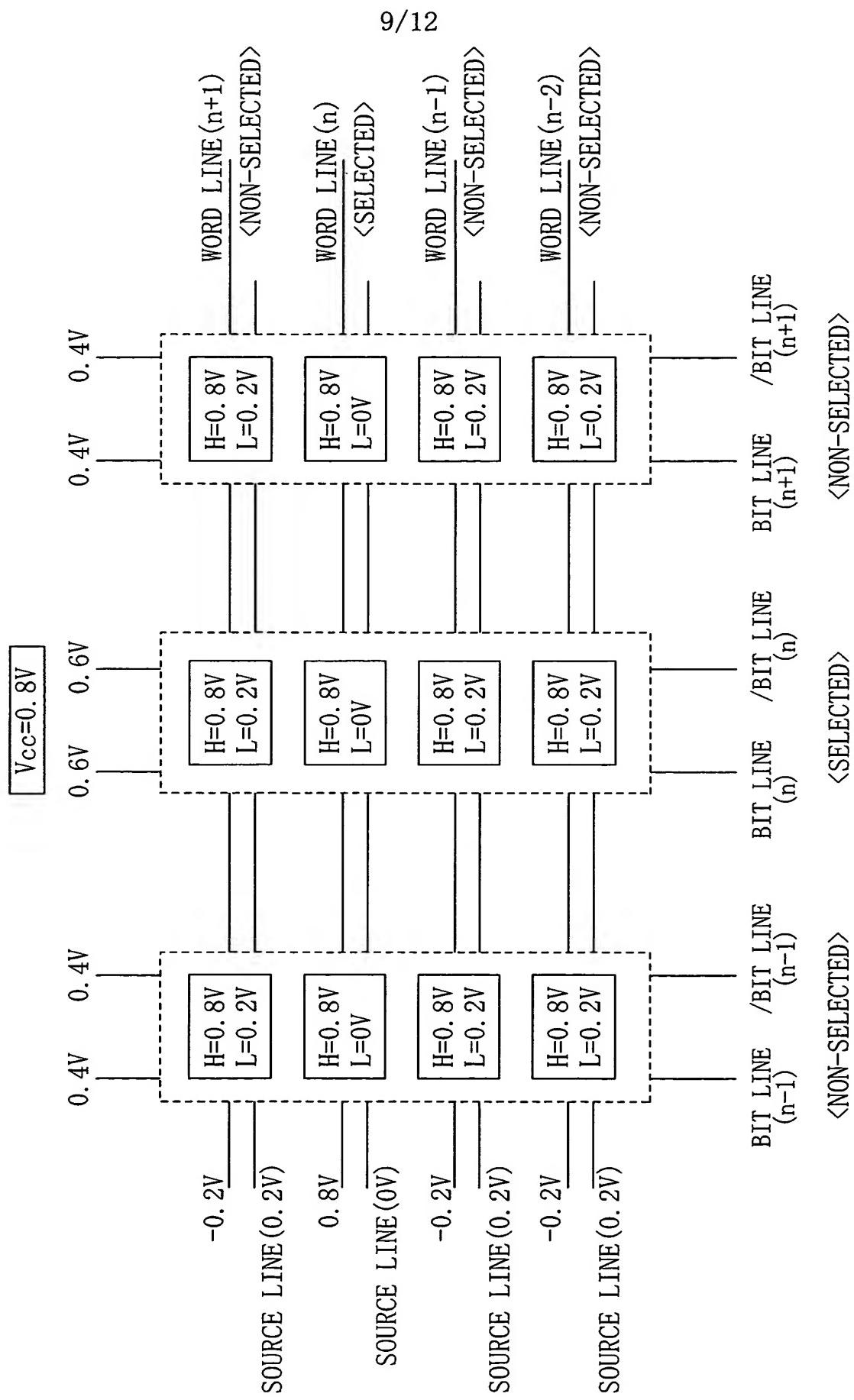


FIG. 10

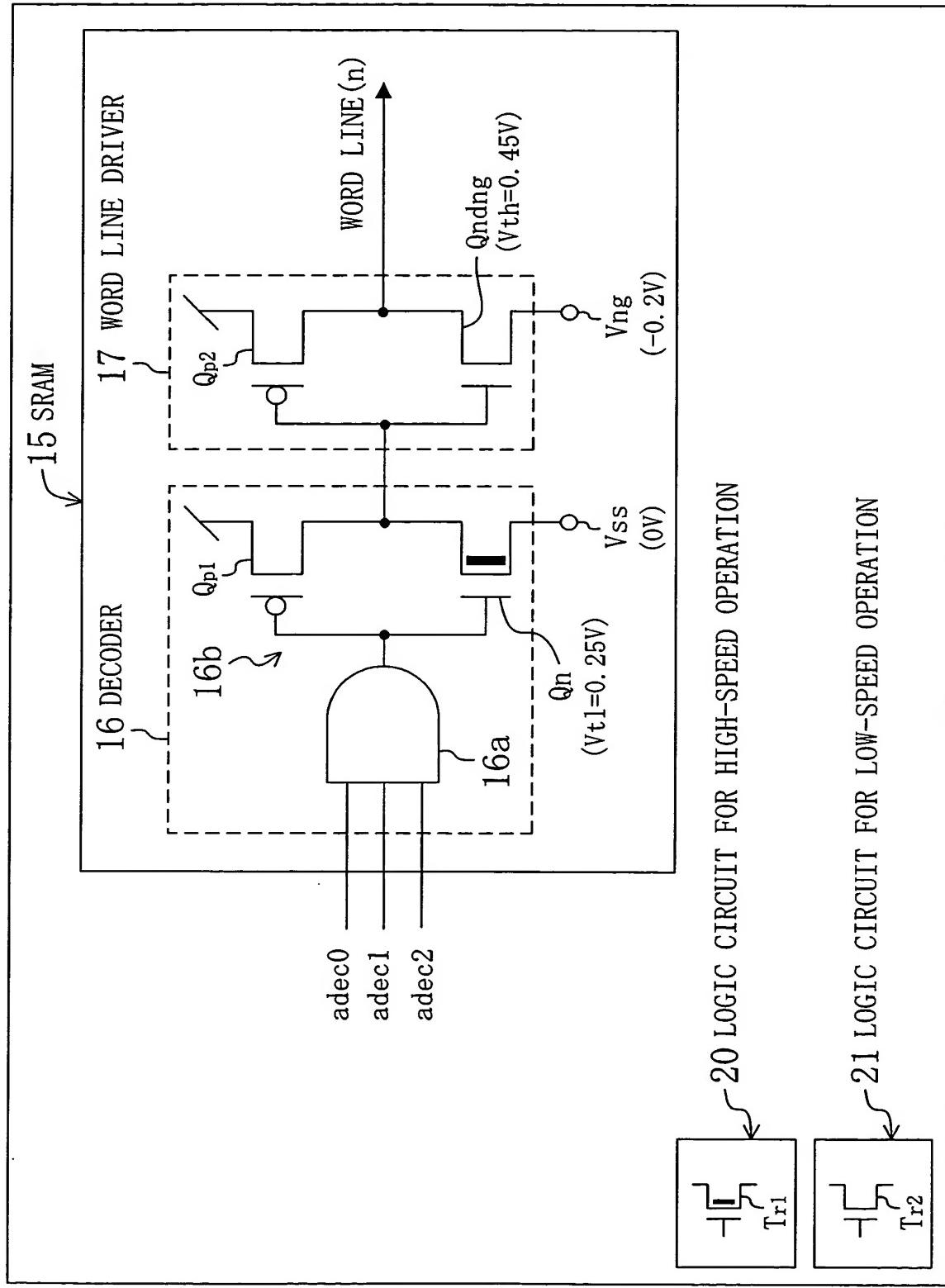


FIG. 11

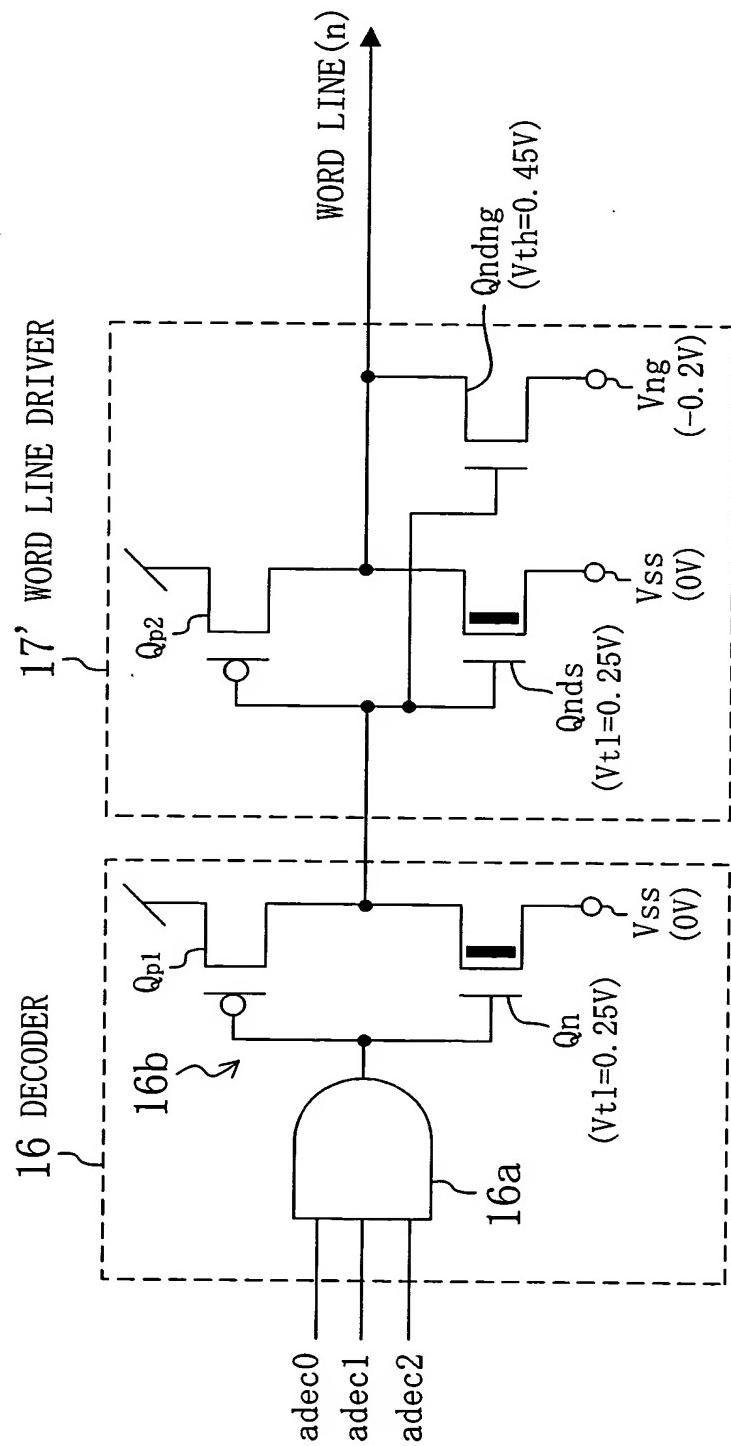


FIG. 12

